# DevOps CI/CD on AWS

CodePipeline to Automatically Deploy changes to Static Website on S3

In this blog, we shall learn how to configure a pipeline that continuously deploys changes in the S3 bucket. The complete pipeline detects changes when we make a change to the source files in our source repository and deploy in the S3 bucket. Each time we modify our file in the source repository, the deployment creates the website with latest changes.
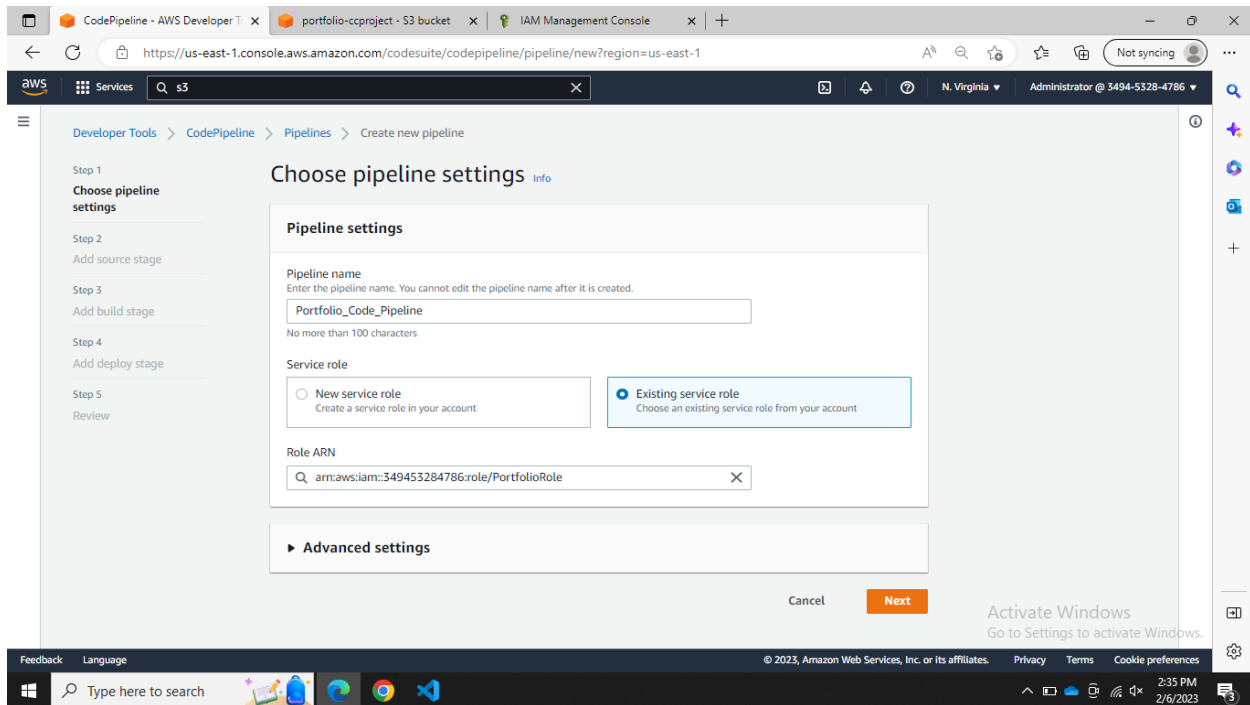
Implementation steps:

**Step 1:** Create a S3 bucket in which files will be deployed.
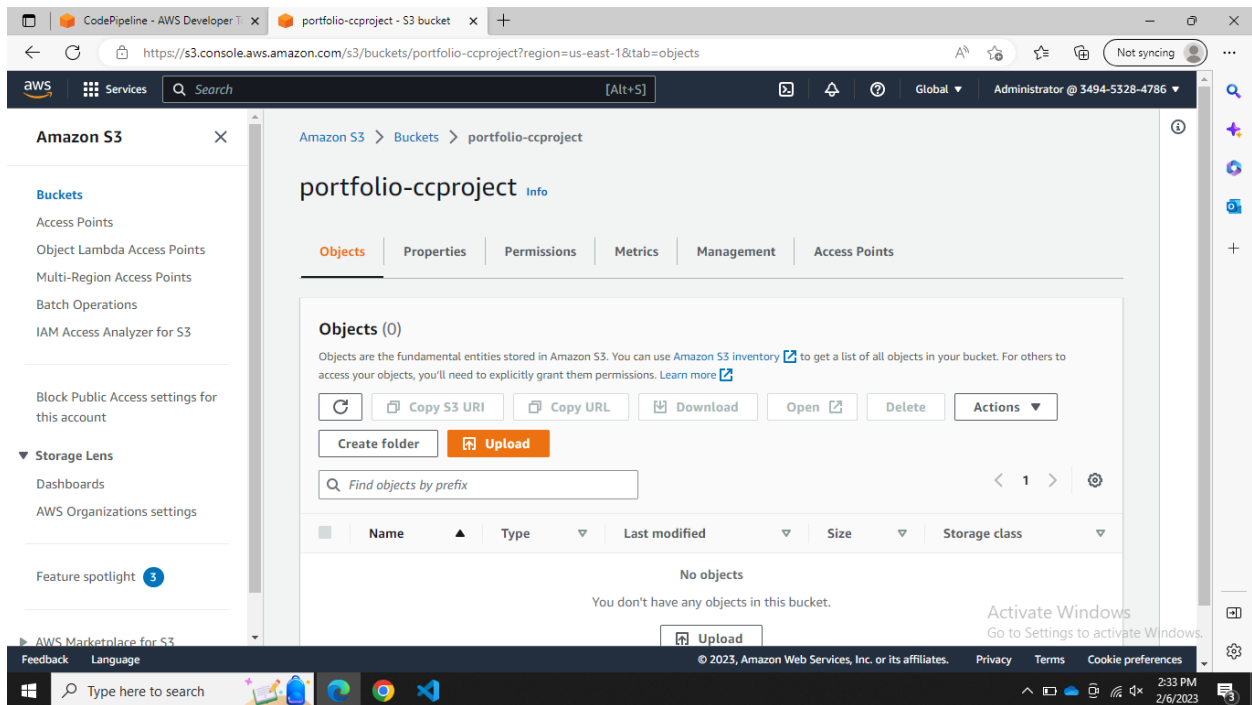
Step 2: Create a Pipeline. For creating a code pipeline need to flow the following steps.

> **2.1:** At first give a pipeline name. Then provide a service role ARN. We can use an existing service role otherwise we need to create one. In that service role we need to give permission for CodePipeline.

2.2: Now we need to add source provider. For this time we will use Github version 1. Then we need to grant AWS CodePipeline access to the Github repository. This allows AWS CodePipeline to upload commits from Github to our pipeline. We also need to select repository and branch.
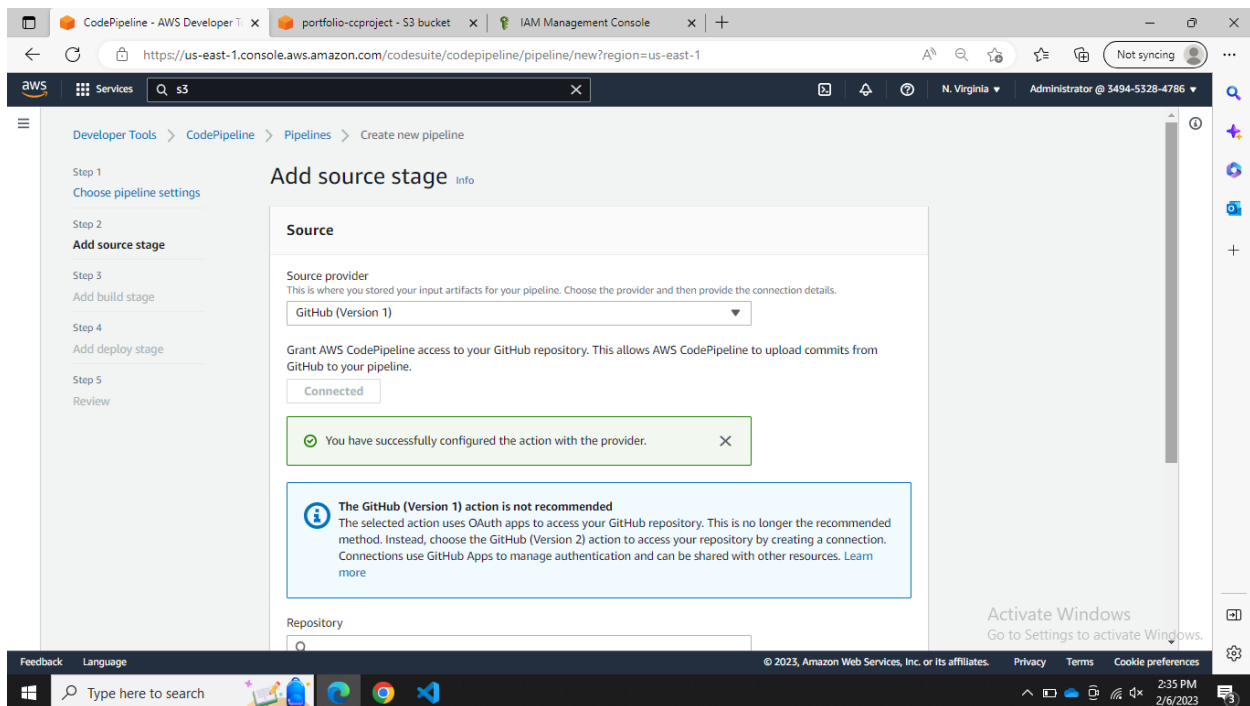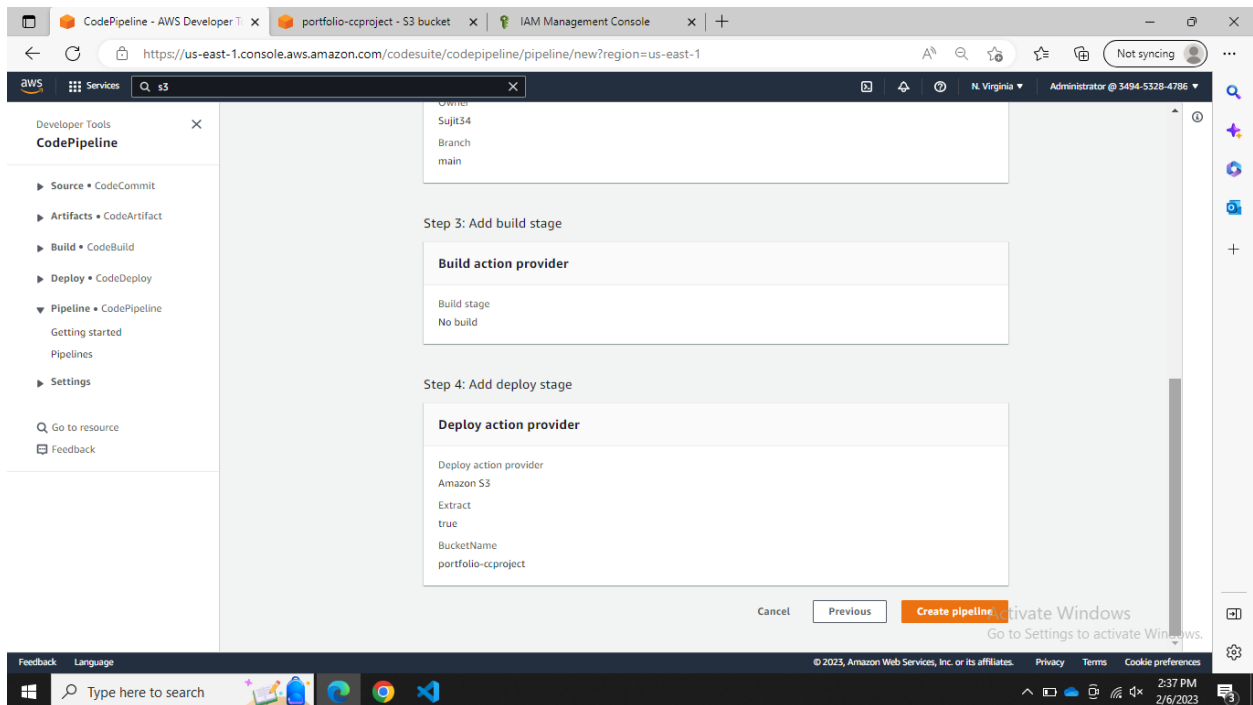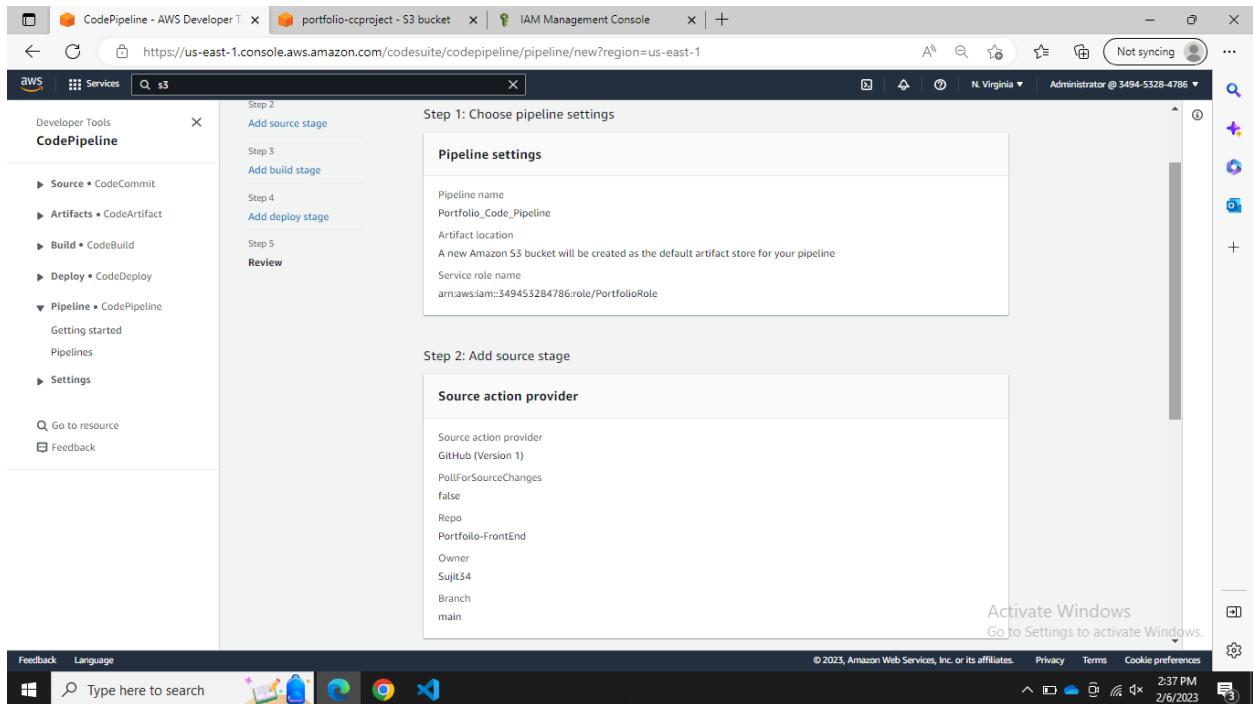
2.3: In this step we need to add build stage but it is optional. For this tutorial we skipped it. For skipping it click button skip build stage.
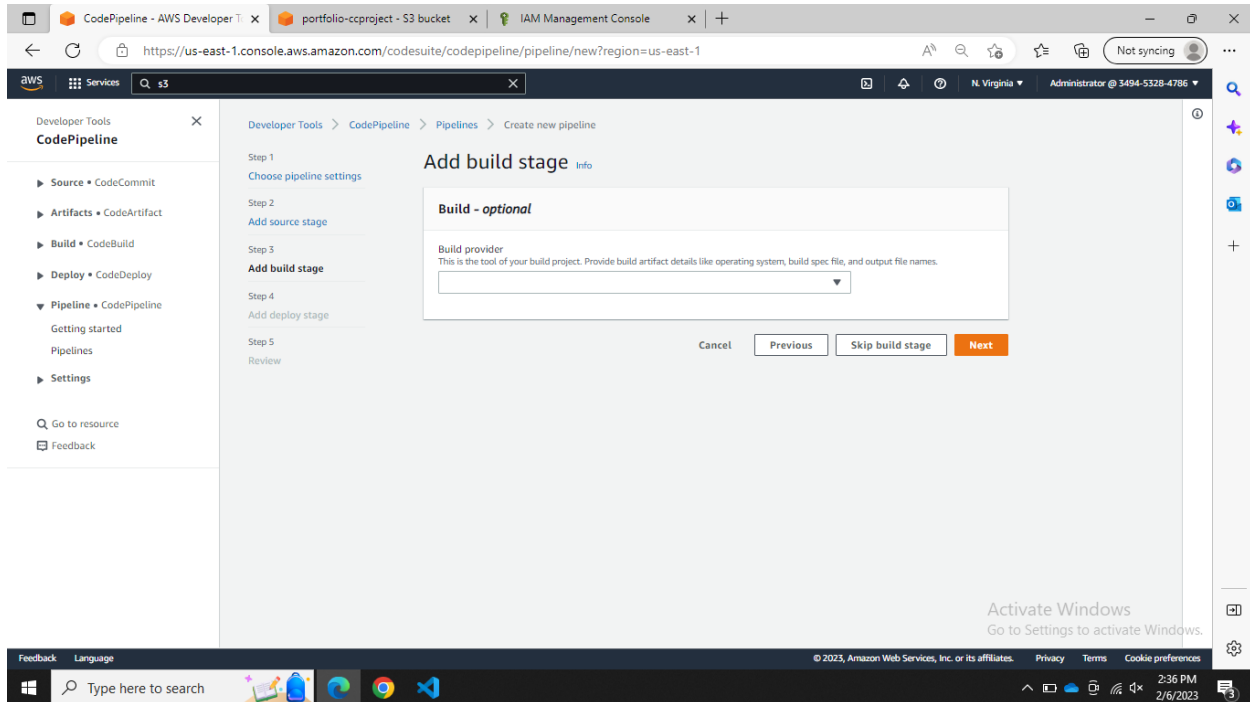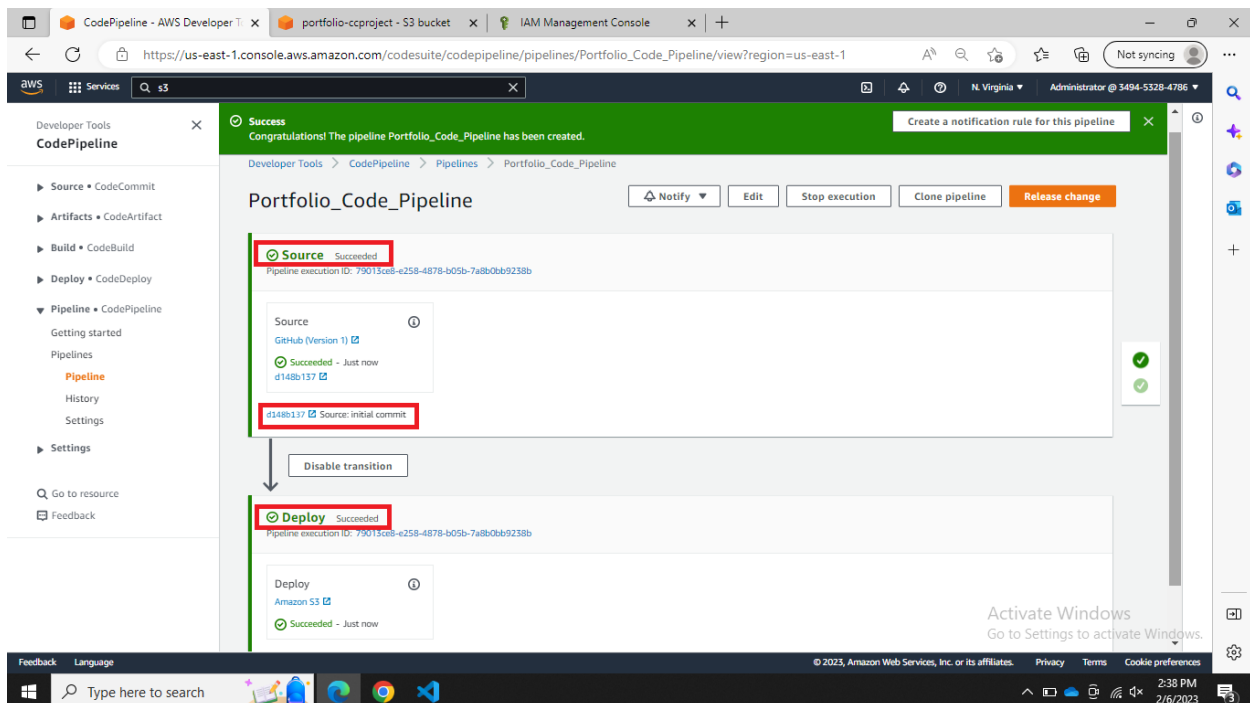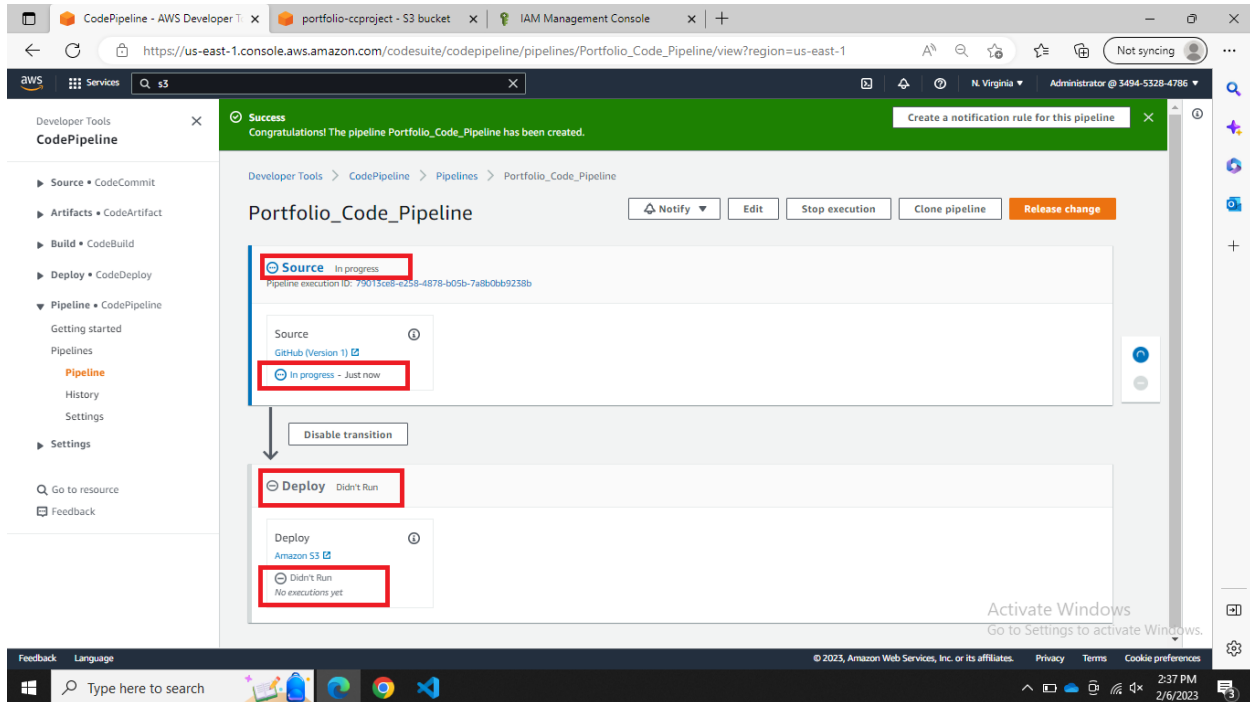

2.4: In deploy stage we need to choose deploy stage and then provide the configuration details for the provider.
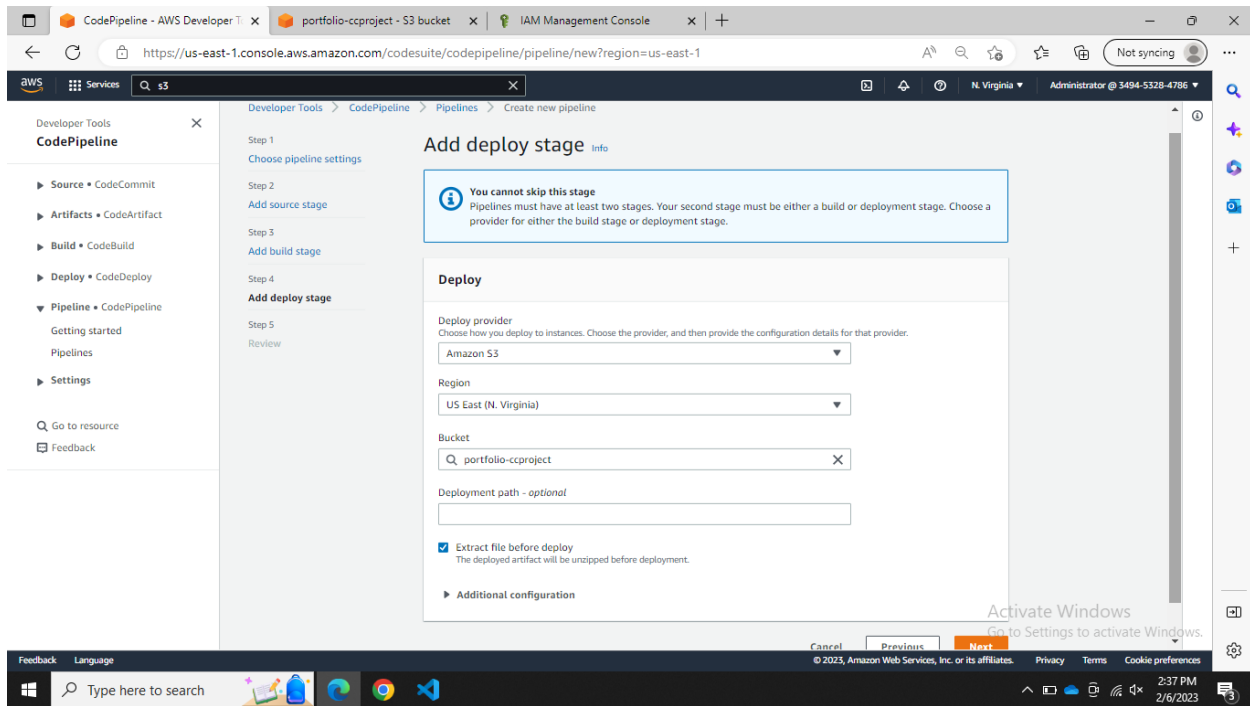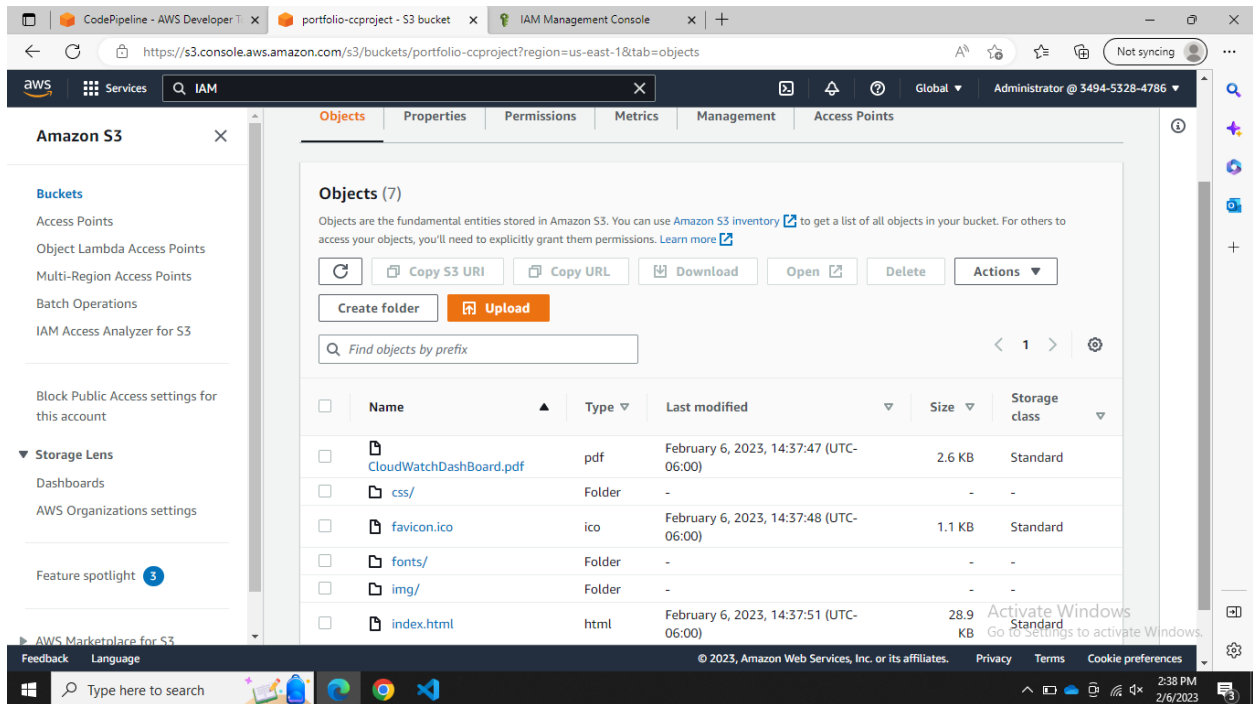
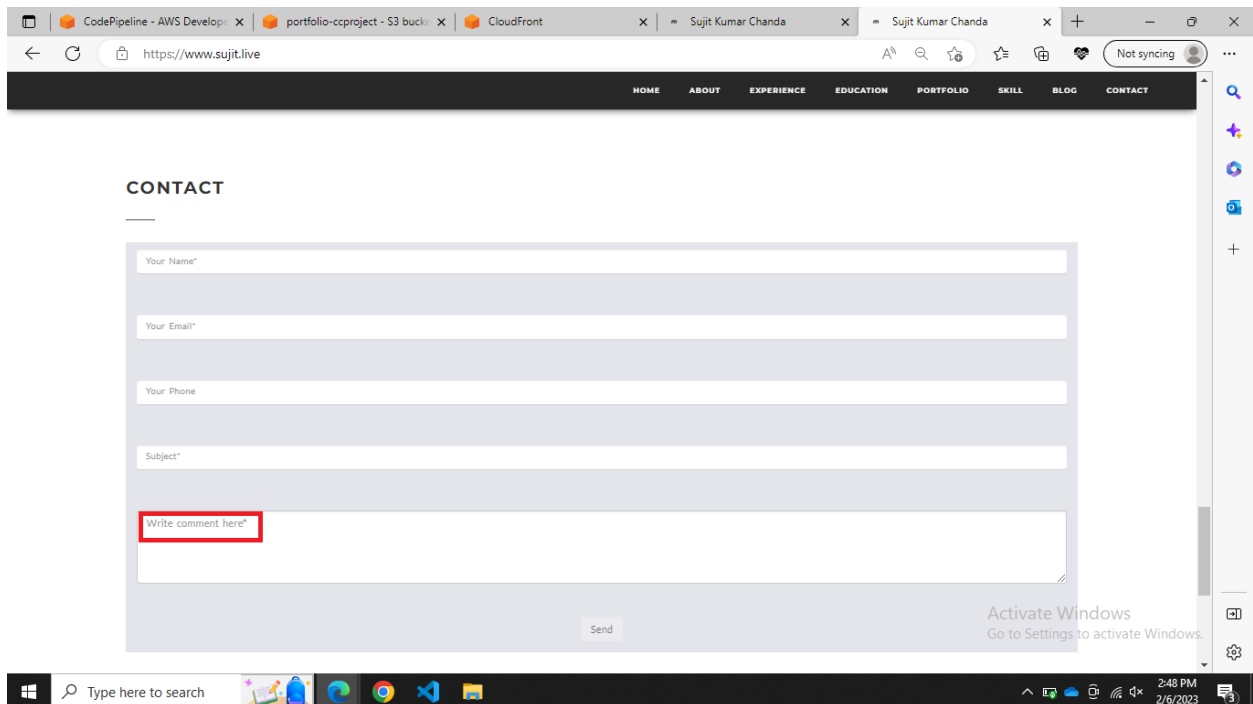**2.5:** Now review the pipeline settings and hit create pipeline button.

Step 3: After creating the CodePipeline, it will detect the files from our Github repository and deploy in S3 bucket.
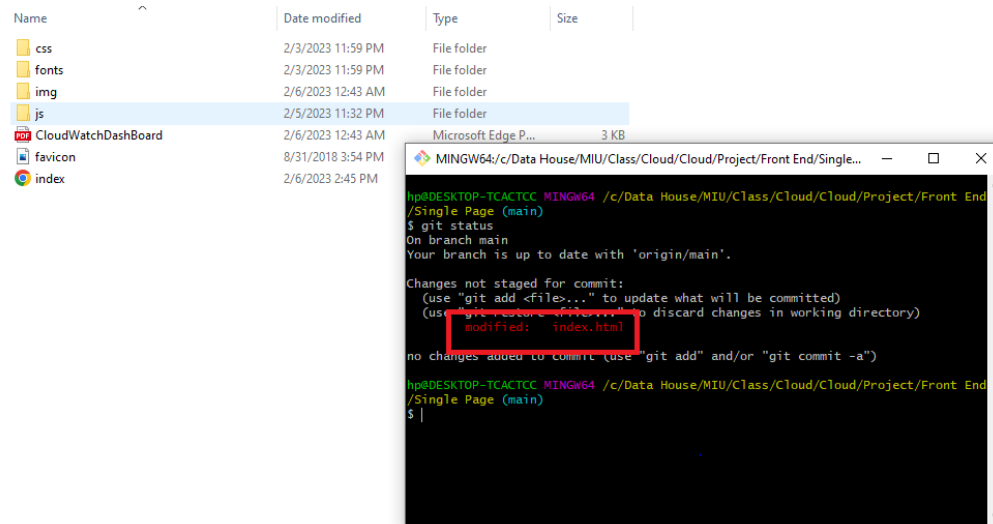
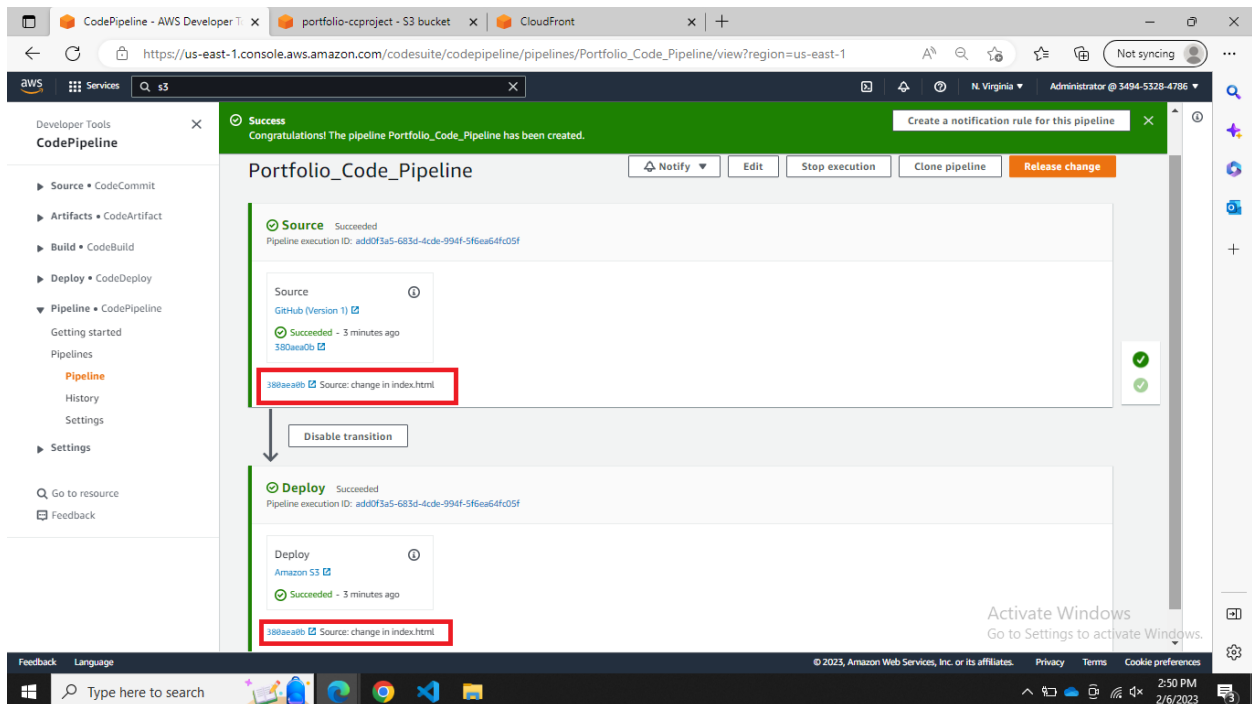**Step 4:** In S3 bucket we can see the reflection. All the files are deployed here.

Step 5: When we browse our website we can see the output.

Step 6: Now we will modify something in our index.html file and push the change to the Github repository.

Step 7: When we pushed the changes in the Github repository then the change will automatically deploy in the S3 bucket.

Step 8: Finally we can see the changed result in our website.